

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: October 21, 2001, 19:52:49 ; Search time 311.46 Seconds
(without alignments)
11138.369 Million cell updates/sec

Title: US-09-515-806-1

Perfect score: 5525

Sequence: 1 tcgcccacgcgtccgacc.....aatgtttcatatacctgca 5525

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 730101 seqs, 313950809 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1460202

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N_Geneseq_0601.*

- 1: /SIDS1/gcgdata/geneseq/geneseqn/NA1980.DAT.*
- 2: /SIDS1/gcgdata/geneseq/geneseqn/NA1981.DAT.*
- 3: /SIDS1/gcgdata/geneseq/geneseqn/NA1982.DAT.*
- 4: /SIDS1/gcgdata/geneseq/geneseqn/NA1983.DAT.*
- 5: /SIDS1/gcgdata/geneseq/geneseqn/NA1984.DAT.*
- 6: /SIDS1/gcgdata/geneseq/geneseqn/NA1985.DAT.*
- 7: /SIDS1/gcgdata/geneseq/geneseqn/NA1986.DAT.*
- 8: /SIDS1/gcgdata/geneseq/geneseqn/NA1987.DAT.*
- 9: /SIDS1/gcgdata/geneseq/geneseqn/NA1988.DAT.*
- 10: /SIDS1/gcgdata/geneseq/geneseqn/NA1989.DAT.*
- 11: /SIDS1/gcgdata/geneseq/geneseqn/NA1990.DAT.*
- 12: /SIDS1/gcgdata/geneseq/geneseqn/NA1991.DAT.*
- 13: /SIDS1/gcgdata/geneseq/geneseqn/NA1992.DAT.*
- 14: /SIDS1/gcgdata/geneseq/geneseqn/NA1993.DAT.*
- 15: /SIDS1/gcgdata/geneseq/geneseqn/NA1994.DAT.*
- 16: /SIDS1/gcgdata/geneseq/geneseqn/NA1995.DAT.*
- 17: /SIDS1/gcgdata/geneseq/geneseqn/NA1996.DAT.*
- 18: /SIDS1/gcgdata/geneseq/geneseqn/NA1997.DAT.*
- 19: /SIDS1/gcgdata/geneseq/geneseqn/NA1998.DAT.*
- 20: /SIDS1/gcgdata/geneseq/geneseqn/NA1999.DAT.*
- 21: /SIDS1/gcgdata/geneseq/geneseqn/NA2000.DAT.*
- 22: /SIDS1/gcgdata/geneseq/geneseqn/NA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	5107	92.4	5163	22	AAF44691
2	1985	35.9	2200	21	AAF77790
3	1585	28.7	2422	21	AAF76970
c	354	6.4	405	21	AAF77231
	152	2.8	260	21	AAA45838
	6	0.8	730	21	AAZ97408
	45	0.8	745	21	AAZ97407
c	41	0.7	173	21	AAZ5679
	37	0.7	986	21	AAZ79767
c	36	0.7	182	21	AAZ05292
	36	0.7	1334	21	AAA37105

12	36	0.7	1334	22	AAF54417	Primer #90 used in
c 13	36	0.7	2764	21	AAC59429	Human secreted pro
c 14	36	0.7	5490	21	AA38099	Human genomic DNA
c 15	36	0.7	7880	21	AA38439	14-3-3 sigma trans
c 16	36	0.7	14747	22	AAF63406	Human CD39 like pr
c 17	36	0.7	15977	22	AAF63407	Human CD39 like pr
c 18	36	0.7	106746	21	AAA10225	Human PCTA-1 genom
c 19	35	0.6	228	21	AAC22904	Human secreted pro
c 20	35	0.6	776	21	AAC79016	Human secreted pro
c 21	35	0.6	837	20	AA37525	Human secreted pro
c 22	35	0.6	8639	20	AA302995	Human IL-1ra BAC c
c 23	35	0.6	41684	21	AA28150	Human purH gene ge
c 24	34	0.6	152	21	AAC23861	Human secreted pro
c 25	34	0.6	154	21	AAC23164	Human secreted pro
c 26	34	0.6	161	21	AAC22955	Human secreted pro
c 27	34	0.6	161	21	AAC23162	Human secreted pro
c 28	34	0.6	163	21	AAC22526	Human secreted pro
c 29	34	0.6	167	21	AAC23353	Human secreted pro
c 30	34	0.6	177	21	AAC23115	Human secreted pro
c 31	34	0.6	178	21	AAC22569	Human secreted pro
c 32	34	0.6	179	21	AAC22939	Human secreted pro
c 33	34	0.6	180	21	AAC23401	Human secreted pro
c 34	34	0.6	181	21	AAC22805	Human secreted pro
c 35	34	0.6	3765	20	AA379643	Human LKB1 gene fr
c 36	34	0.6	6405	22	AAF97850	Human neuroblastom
c 37	33	0.6	249	21	AAC13408	Human secreted pro
c 38	33	0.6	253	21	AAC22429	Human secreted pro
c 39	33	0.6	260	21	AA304921	Human secreted pro
c 40	33	0.6	575	21	AA81712	N. meningitidis pa
c 41	33	0.6	755	20	AAZ16214	Human gene express
c 42	33	0.6	1562	21	AAZ56728	Human transmembran
c 43	33	0.6	1792	21	AAZ59834	Human secreted pro
c 44	33	0.6	1902	21	AAZ76936	Human ORFX ORF2491
c 45	33	0.6	2309	20	AAZ25332	Human chemokine al

ALIGNMENTS

RESULT 1
ID AAF44691 standard; cdNA; 5163 BP.
XX
AC AAF44691;
XX
DT 27-MAR-2001 (first entry)
XX
Novel protein kinase cdNA, SEQ ID NO: 71.
XX
Human; mouse; protein kinase; antiarthritic; antisclerotic; osteopathic;
immunosuppressive; cardiant; renal; antiinflammatory; antiasthmatic;
dermatological; antidiabetic; infertility; gene therapy; vaccine;
immune disorder; cardiovascular disease; neurodegenerative disease;
cancer; autoimmune disorder; stroke; inflammatory bowel disease;
inflammatory pelvic disease; multiple sclerosis; psoriasis; ss.
XX
OS Homo sapiens.
XX
XX WO200073469-A2.
XX
PD 07-DEC-2000.
XX
PF 26-MAY-2000; 2000WO-US14842.
XX
PR 28-MAY-1999; 99US-0136503.
XX
PA (SUGF-) SUGEN INC.
XX
PI Plowman GD, Martinez R, Whyte D, Sudersanam S;
XX
XX WPI; 2001-032161/04.
DR
DR P-PSDB; AAB65663.
XX

QY 1789 ttatgtagacacagacagatgtttcccgatacttccattgattgattgaagaattacaacttc 1848
 Db 1746 ttatgtagacacagacagatgtttcccgatacttccattgattgattgaagaattacaacttc 1805
 QY 1849 ttgttaaggagcttttggagctgtcatcaagggtgcagaaacaaattgagcgctgtgct 1908
 Db 1806 ttgttaaggagcttttggagctgtcatcaagggtgcagaaacaaattgagcgctgtgct 1865
 QY 1909 acgagtgaaagcagatcccatcaacccgcccagccagccaggttccgagagatacaaggcg 1968
 Db 1866 acgagtgaaagcagatcccatcaacccgcccagccagccaggttccgagagatacaaggcg 1925
 QY 1969 aagtgaacactgtctacggctgcacatgagaacattgtgcctactatacaacgcttgga 2028
 Db 1926 aagtgaacactgtctacggctgcacatgagaacattgtgcctactatacaacgcttgga 1985
 QY 2029 tcgagcgacagagcgccgcccgggacccgggagccgcccgggactccggccctgg 2088
 Db 1986 tcgagcgacagagcgccgcccgggacccgggagccgcccgggactccggccctgg 2045
 QY 2089 ccaaggtatgacagagctgcagcgccgagccgcccgggacagacagagcgccctggacagcg 2148
 Db 2046 ccaaggtatgacagagctgcagcgccgagccgcccgggacagacagagcgccctggacagcg 2105
 QY 2149 tagagcgccgcccgggaccccatctcagcagctcgggtggagtgagcaacttcggcg 2208
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 Db 2166 agcgctcgccagtgccgtttcccgccacccgcccgggacccgagcgagcgagcg 2225
 QY 2269 acgagcgacagagcggtggcgcttctccagctccttcgctcctcgtcctcagattcg 2328
 Db 2226 acgagcgacagagcggtggcgcttctccagctccttcgctcctcgtcctcagattcg 2285
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 Db 2386 aagtgatatatttttgacaaatgaagatgagacagtagtaaaagtcagaatcaggatgaag 2345
 QY 2389 atlgcaatgaaagagatggctccatgaaagtgaagtgagccatcagtgagcagactgagctgac 2448
 Db 2346 atlgcaatgaaagagatggctccatgaaagtgaagtgagccatcagtgagcagactgagctgac 2405
 QY 2449 actacattacatccagatggagtagctgtgagagagcactttacagacacacattgacc 2508
 Db 2406 actacattacatccagatggagtagctgtgagagagcactttacagacacacattgacc 2465
 QY 2509 agggactgtatcgagacacccgtcagactctgagggcttttttcgagagattctggatggat 2568
 Db 2466 agggactgtatcgagacacccgtcagactctgagggcttttttcgagagattctggatggat 2525
 QY 2569 tagcttatccatgagaaaggaatgattcacgggagatttgagcctgtcaacattttt 2628
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 Db 2706 gtcaacttaactgggagtggttggcactgctctctctctctctctctctctctctctctctct 2765
 QY 2809 ccaaatctgtacatacaccagaaagtgatctctctcagcctgggaattatctctctctctctctct 2868
 Db 2766 ccaaatctgtacatacaccagaaagtgatctctctcagcctgggaattatctctctctctctctct 2825

QY 2869 tgtcttatcaacccatcgggttcacgggttcagaaaggatctttgttcttcaaccaactcagag 2928
 Db 2826 tgtcttatcaacccatcgggttcacgggttcagaaaggatctttgttcttcaaccaactcagag 2885
 QY 2929 atcccaactcgcctaaagtctccagaagactttgacagatgagagatgagagcagagaat 2988
 Db 2886 atcccaactcgcctaaagtctccagaagactttgacagatgagagatgagagcagagaat 2945
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 QY 3109 accacacgctgacaaacgtggatgggaaagcctaccgacacatgatgcccagactctct 3168
 Db 3066 accacacgctgacaaacgtggatgggaaagcctaccgacacatgatgcccagactctct 3125
 QY 3169 cgcagcgcatctccctcgcctcgcattacacactatgacagcgacatactgaagggaact 3228
 Db 3126 cgcagcgcatctccctcgcctcgcattacacactatgacagcgacatactgaagggaact 3185
 QY 3229 tctcaatcgttacacacacagatgcagcagcatgtgttgaaaacacatcaccgcactcttta 3288
 Db 3186 tctcaatcgttacacacacagatgcagcagcatgtgttgaaaacacatcaccgcactcttta 3245
 QY 3289 aaagacatggagctgttcagttgttactcactactgttcccccgaacacagacacacat 3348
 Db 3246 aaagacatggagctgttcagttgttactcactactgttcccccgaacacagacacacat 3305
 QY 3349 atgacacacacagacagctcgcctattcatggaacacagcggatgctggtgactctct 3408
 Db 3306 atgacacacacagacagctcgcctattcatggaacacagcggatgctggtgactctct 3365
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 Db 3426 gatactgcatagaacgctgttgcaggccgcgaagttagatcgattttcatccccaagaac 3485
 QY 3529 ttctggagtgacattgattgtcactttaccacacacagctttctgcccactgctg 3588
 Db 3486 ttctggagtgacattgattgtcactttaccacacacagctttctgcccactgctg 3545
 QY 3589 aaattatctacactatctatgaaatcatccagagatttccagcacttcaggaagaaat 3648
 Db 3546 aaattatctacactatctatgaaatcatccagagatttccagcacttcaggaagaaat 3605
 QY 3649 acagtattattgaacacacacacattgttattgaaagcaataactctacactgtggatcc 3708
 Db 3606 acagtattattgaacacacacacattgttattgaaagcaataactctacactgtggatcc 3665
 QY 3709 cagaagataaaactcagtcagactacattattctgtatgactgtgacagagagatgga 3768
 Db 3666 cagaagataaaactcagtcagactacattattctgtatgactgtgacagagagatgga 3725
 QY 3769 cgaggagagaagtggaagctaaattttgttaactctgtctttgtcttcaatagctgtgct 3828
 Db 3726 cgaggagagaagtggaagctaaattttgttaactctgtctttgtcttcaatagctgtgct 3785
 QY 3829 gactctacaagttattgacacagagagagatttgcagatctcttatcccaacataaatt 3888
 Db 3786 gactctacaagttattgacacagagagagatttgcagatctcttatcccaacataaatt 3845
 QY 3889 cattataaaacacagaaaaacaggtattgcagttgttgaagtagtctttaaagacactag 3948
 Db 3846 cattataaaacacagaaaaacaggtattgcagttgttgaagtagtctttaaagacactag 3905
 QY 3949 agggaggttgttgactgttgaagaaactcggcatcaaggttacaggttctgtatcaattgg 4008

QY 5246 aaattagttggcagtcgtgacacatgctgtgtagtccagctactcca 5292
 |||||
 Db 2049 aaattagttggcagtcgtgacacatgctgtgtagtccagctactcca 2095

RESULT 3

AAC76970
 ID AAC76970 standard; cDNA; 2422 BP.

XX AAC76970;

XX
 DT
 XX 08-FEB-2001 (first entry)

DE Human ORFX ORF5252 polynucleotide sequence SEQ ID NO:5049.

XX Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;
 KW vulnary; antipsoriatic; antiparkinsonian; nootropic; neuroprotective;
 KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiant;
 KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;
 KW hypotensive; dermatological; immunosuppressive; antiinflammatory;
 KW antiviral; antibacterial; antifungal; antirheumatic; antithyroid;
 KW antinaemic; gene therapy; cancer; proliferative disorder; hypertension;
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
 KW cholesterol ester storage; systemic lupus erythematosus; infection;
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
 KW bone damage; cartilage damage; antinflammatory disease; coagulation;
 KW thrombosis; contraceptive; ss.

XX Homo sapiens.

XX WO200058473-A2.

XX 05-OCT-2000.

XX 31-MAR-2000; 2000WO-US08621.

XX 31-MAR-1999; 99US-0127607.

XX 02-APR-1999; 99US-0127636.

XX 05-APR-1999; 99US-0127728.

XX 30-MAR-2000; 2000US-0540763.

XX (CURA-) CURAGEN CORP.

XX Shimkets RA, Leach M;

XX WPI; 2000-602362/57.

XX P-PSDB; AAB42761.

XX Novel nucleic acids and peptides derived from open reading frame X,

XX useful for treating e.g. cancers, proliferative disorders,

XX neurodegenerative disorders and cardiovascular disease -

XX Claim 5; Page 4233-4235; 5507pp; English.

XX AAC74446 to AAC7606 encode the proteins given in AAB40237 to AAB43397,
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
 CC sequences have activities such as: cytostatic; hepatotropic; vulnary;
 CC antipsoriatic; antiparkinsonian; nootropic; neuroprotective;
 CC osteopathic; anticonvulsant; antiarthritic; immunosuppressant;
 CC immunostimulant; cardiant; thrombolytic; coagulant; vasotropic;
 CC antidiabetic; hypotensive; dermatological; immunosuppressive;
 CC antiinflammatory; antibacterial; antiviral; antifungal; antirheumatic;
 CC antithyroid; and antinaemic. The sequences can be used for determining
 CC the presence of or predisposition to, or preventing or treating
 CC pathological conditions associated with an ORFX-associated disorder. The
 CC nucleic acids can be used to express ORFX proteins in gene therapy
 CC vectors. The proteins and nucleic acids may be used to treat cancers,
 CC proliferative disorders, neurodegenerative disorders, osteoarthritis,
 CC graft vs host disease, cardiovascular disease, diabetes mellitus,
 CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
 CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,

CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,
 CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
 CC nocturnal haemoglobinuria, antiinflammatory disease; to enhance
 CC coagulation; to inhibit thrombosis; and as a contraceptive.

XX Sequence 2422 BP; 789 A; 489 C; 518 G; 619 T; 7 other;

Query Match 28.7%; Score 1585; DB 21; Length 2422;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 1635; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3884 aaattcattataaaacagaaacacaggtattgcacagttggtgagtagtgccttaaaaga 3943

Db 732 aaattcattataaaacagaaacacaggtattgcacagttggtgagtagtgccttaaaaga 791

QY 3944 cctagagaggtttgagactgttgaagaaactcggcatcaagttacaggtcttgatcaa 4003

Db 792 cctagagaggtttgagactgttgaagaaactcggcatcaagttacaggtcttgatcaa 851

QY 4004 ttgggcttgggtttacaaaggtgcagcagcaaatggaaatcattctccagtttgggttt 4063

Db 852 ttgggcttgggtttacaaaggtgcagcagcaaatggaaatcattctccagtttgggttt 911

QY 4064 catcaaacgagggcaaaagggctgtacctgaaatcctcgcagctggagcagatagacct 4123

Db 912 catcaaacgagggcaaaagggctgtacctgaaatcctcgcagctggagcagatagacct 971

QY 4124 gctgattccccagtttagagggccacagctctggggccagttccaccgtccattggggt 4183

Db 972 gctgattccccagtttagagggccacagctctggggccagttccaccgtccattggggt 1031

QY 4184 cagcatagctatagacaagatatctgctgctgctcctcaacatggaggaatctgttacaat 4243

Db 1032 cagcatagctatagacaagatatctgctgctgctcctcaacatggaggaatctgttacaat 1091

QY 4244 aagctctgtgaacctcctcctggttgaagtgttgggtcagatgtctatgtccagggccatcaa 4303

Db 1092 aagctctgtgaacctcctcctggttgaagtgttgggtcagatgtctatgtccagggccatcaa 1151

QY 4304 cctaaccagaaaactctggacagcagcagcatcacagcagaaaatcatgtacgactggtcaca 4363

Db 1152 cctaaccagaaaactctggacagcagcagcatcacagcagaaaatcatgtacgactggtcaca 1211

QY 4364 gtcccaagagggaattacaagagtagctgcagacatcatgaaatcaacctatgtggcccttgt 4423

Db 1212 gtcccaagagggaattacaagagtagctgcagacatcatgaaatcaacctatgtggcccttgt 1271

QY 4424 ctccgataaaagaaggaagccatgtcaaggttaagttcttcgagaagaaagcagacaga 4483

Db 1272 ctccgataaaagaaggaagccatgtcaaggttaagttcttcgagaagaaagcagacaga 1331

QY 4484 gaagcgtgtcgtggagactgaacttgtggacctgtactgcagaaactgaggaactaaagt 4543

Db 1332 gaagcgtgtcgtggagactgaacttgtggacctgtactgcagaaactgaggaactaaagt 1391

QY 4544 cactgatgaaaggaatggcagagaagcttccogataatcttcagtcagtcgaaaaatctgaaagg 4603

Db 1392 cactgatgaaaggaatggcagagaagcttccogataatcttcagtcagtcgaaaaatctgaaagg 1451

QY 4604 gtcatcttataatgtctcaggttttttgaaatccatgagcaacagtggttccattgt 4663

Db 1452 gtcatcttataatgtctcaggttttttgaaatccatgagcaacagtggttccattgt 1511

QY 4664 gagtgtgtagccccggagaagctgtcagccagcactgagggcgctatgaaactcaggt 4723

Db 1512 gagtgtgtagccccggagaagctgtcagccagcactgagggcgctatgaaactcaggt 1571

QY 4724 acaactgacttcagacctcctcctgcacaaacttacatcagaaaaagcagtgaaattgaaat 4783

Db 1572 acaactgacttcagacctcctcctgcacaaacttacatcagaaaaagcagtgaaattgaaat 1631

QY 4784 tctggctgtggatctaccacaaagaaaaataattacagtttttttatcatgagtgaggatgc 4843

Db 181 ctgttgaaacacgatccagcaaaacgcccacacagcagccacacagaaactgctcaagagtgcgctg 240
 Qy 3063 ctccccccacacgatgagagagtcagagctgcagtgatgagctgcacacacacgtgacc 3122
 Db 241 ctccccccacacgatgagagagtcagagctgcagtgatgagctgcacacacacgtgacc 300
 Qy 3123 aacgtgagtggaagcctaccgcaccatgatggccacagatcttctgcagcgc 3176
 Db 301 aacgtgagtggaagcctaccgcaccatgatggccacagatcttctgcagcgc 354

RESULT 5
 AAA45838/C
 ID AAA45838 standard; cDNA; 260 BP.
 AC AAA45838;
 XX
 DT 21-AUG-2000 (first entry)
 XX
 DE Human secreted expressed sequence tag SEQ ID NO:2413.
 XX
 KW Human; mouse; chicken; rat; secreted expressed sequence tag; SEST;
 KW expressed sequence tag; EST; probe; chemotactic; proliferative;
 KW immunomodulatory; haematopoietic; chemokinetic; analgesic; haemostatic;
 KW thrombolytic; antiinflammatory; cytostatic; antibacterial; antifungal;
 KW antiviral; antidiabetic; antiasthmatic; vulnery; antiparkinsonian;
 KW anticancer; osteopathic; neuroprotective; neurotropic; antipsoriatic;
 KW cerebroprotective; anticonvulsant; antidepressant; gene therapy;
 KW vaccine; autoimmune disorder; multiple sclerosis; allergic condition;
 KW insulin dependent diabetes; asthma; myeloid cell deficiency; ulcer;
 KW lymphoid cell deficiency; burn; osteoporosis; osteoarthritis;
 KW central nervous system disorder; Alzheimer's disease; stroke;
 KW Parkinson's disease; Huntington's disease; coagulation disorder;
 KW haemophilia; thrombosis; inflammatory disorder; Crohn's disease;
 KW tumour; infection; depression; psoriasis; ss.
 XX
 OS Homo sapiens.

XX
 XX WO200021991-A1.
 XX
 PD 20-APR-2000.
 XX
 PF 15-OCT-1999; 99WO-US24206.
 XX
 PR 15-OCT-1998; 98US-0104436.
 XX
 PA (GEMY) GENETICS INST INC.
 XX
 PI Jacobs K, McCoy JM, LaVallie ER, Collins-Racie LA, Evans C;
 PI Merberg D, Treacy M, Bowman MR;
 XX
 PF WPI; 2000-317938/27.
 DR
 XX Isolated polynucleotides, and encoded proteins, comprising secreted
 PT expressed sequence tags (SESTs), useful for treating various disorders
 PT such as autoimmune, infectious, and central nervous system disorders -
 XX
 XX Claim 1; Page 781; 803pp; English.

XX
 CC AAA43426 to AAA45925 represent specifically claimed secreted expressed
 CC sequence tags (SESTs), isolated from human, mouse, chicken and rat
 CC tissue sources. The SESTs can have a range of activities depending on
 CC the tissues they were isolated from. The activities include:
 CC chemotactic; proliferative; immunomodulatory; haematopoietic;
 CC cytosstatic; analgesic; haemostatic; thrombolytic; antiinflammatory;
 CC cyrostatic; antibacterial; antifungal; antiviral; antidiabetic;
 CC antiasthmatic; vulnery; antiulcer; osteopathic; neuroprotective;
 CC neurotropic; antiparkinsonian; antipsoriatic; cerebroprotective;
 CC anticonvulsant; and antidepressant. The SESTs can be used for gene
 CC therapy and in vaccines. The SESTs are useful as probes for the
 CC identification and isolation of full-length cDNAs and genomic DNA
 CC molecules which correspond to the SESTs. Proteins encoded by the SESTs
 CC are useful in assays for determining biological activity and raising

CC antibodies. They may be useful for treatment of autoimmune disorders
 CC (multiple sclerosis, insulin dependent diabetes), allergic conditions
 CC (asthma), myeloid or lymphoid cell deficiencies, wounds, burns, ulcers,
 CC osteoporosis, osteoarthritis, central nervous system disorders
 CC (Alzheimer's, Parkinson's, Huntington's disease, stroke), coagulation
 CC disorders (haemophilia, thrombosis), inflammatory disorders (Crohn's
 CC disease), tumours, bacterial, fungal or viral infections, depression and
 CC psoriasis. AAA45926 to AAA45931 represent linker variants which are given
 CC in the exemplification of the present invention.
 XX
 SQ Sequence 260 BP; 52 A; 72 C; 57 G; 79 T; 0 other;

Query Match 2.8%; Score 152; DB 21; Length 260;
 Best Local Similarity 100.0%; Pred. No. 8.e-61;
 Matches 152; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 542 gctgttgaggcccaagcgaaagagagcgagcgagcaacgtgaaatcctgcagattca 601
 Db 177 GCTGTGAGGCGCCAAAGCGAAAGAGAGAGAGCAACGCTGAATCCTGCTGAGATTC 118

Qy 602 gagaagaaagacagataaaagagagagagagagagagagagagagagagagagagag 661
 Db 117 GAGAGGAGAAAGAGAGATAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 58

Qy 662 ttggaaattgctagtgttgcacaaacgaatc 693
 Db 57 TTTGGAATTCCTAGTTTGTCAACCAAGATC 26

RESULT 6
 AAZ97408
 ID AAZ97408 standard; cDNA; 730 BP.
 AC AAZ97408;
 XX
 DT 18-APR-2000 (first entry)
 XX
 DE Human prostate cancer differentially expressed gene #269.

XX
 KW prostate cancer specific gene; cancer; tumour progression; diagnose;
 KW hyperproliferative cell growth; prostatic disorder; treatment;
 KW metastatic prostate cancer; benign prostate hyperplasia; BPH; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9964594-A2.
 XX
 PD 16-DEC-1999.
 XX
 PF 10-JUN-1999; 99WO-US13181.
 XX
 PR 11-JUN-1998; 98US-0088877.
 PR 09-JUN-1999; 99US-0088877.
 XX
 PA (CHIR) CHIRON CORP.

XX
 PI Astel JH, Carroll E, Endege WO, Ford DM, Monahan JE, Schlegel R;
 PI Steinmann KE, Zhang J;
 XX
 DR WPI; 2000-116541/10.

XX
 PT New isolated prostate cancer specific nucleic acids, used to develop
 PT products for the diagnosis and treatment of cancer -
 XX
 PS Claim 2; Page 183-184; 212pp; English.

XX
 CC This sequence represents a prostate cancer specific nucleic acid
 CC sequence. The invention relates to a method for diagnosing cancer,
 CC tumour progression, hyperproliferative cell growth or accompanying
 CC biological and physical manifestations. The method involves contacting
 CC the biological sample with a probe that comprises a sequence capable of
 CC hybridising to any of the 339 nucleotide sequences given in the

CC specification (see AA297140-297478) and detecting duplex formation. The
 CC products and methods of the invention can be used for the diagnosis,
 CC prognosis, and treatment of cancer, tumour progression,
 CC hyperproliferative cell growth, and accompanying physical and biological
 CC manifestations. They can be used particularly for prostatic disorders
 CC such as metastatic prostate cancer, localised prostate cancer, or benign
 CC prostate hyperplasia (BPH).
 XX
 SQ Sequence 730 BP; 223 A; 148 C; 167 G; 180 T; 12 other;

Query Match 0.8%; Score 45; DB 21; Length 730;
 Best Local Similarity 100.0%; Pred. No. 7.1e-11;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5246 aaattagttggcattggtggcacatgctgtagtcctccagctactc 5290
 Db |||||||||||||||||||||||||||||||||||||||||||||||||
 335 aaattagttggcattggtggcacatgctgtagtcctccagctactc 379

RESULT 7
 AA297407
 ID AA297407 standard; cDNA; 745 BP.
 XX
 AC AA297407;
 XX
 DT 18-APR-2000 (first entry)
 XX
 DE Human prostate cancer differentially expressed gene #268.
 XX
 KW Prostate cancer specific gene; cancer; tumour progression; diagnosis;
 KW hyperproliferative cell growth; prostatic disorder; treatment;
 KW metastatic prostate cancer; benign prostate hyperplasia; BPH; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9964594-A2.
 XX
 PD 16-DEC-1999.
 XX
 PF 10-JUN-1999; 99WO-US13181.
 XX
 PR 11-JUN-1998; 98US-0088877.
 PR 09-JUN-1999; 99US-0088877.
 PA (CHIR) CHIRON CORP.
 XX
 XX Astel JH, Carroll E, Endege WO, Ford DM, Monahan JE, Schlegel R;
 PI Steinmann KE, Zhang J;
 DR WPI; 2000-116541/10.
 XX
 XX New isolated prostate cancer specific nucleic acids, used to develop
 PT products for the diagnosis and treatment of cancer -
 PT
 XX
 PS Claim 2; Page 183; 212pp; English.
 CC
 CC This sequence represents a prostate cancer specific nucleic acid
 CC sequence. The invention relates to a method for diagnosing cancer,
 CC tumour progression, hyperproliferative cell growth or accompanying
 CC biological and physical manifestations. The method involves contacting
 CC the biological sample with a probe that comprises a sequence capable of
 CC hybridising to any of the 339 nucleotide sequences given in the
 CC specification (see AA297140-297478) and detecting duplex formation. The
 CC products and methods of the invention can be used for the diagnosis,
 CC prognosis, and treatment of cancer, tumour progression,
 CC hyperproliferative cell growth, and accompanying physical and biological
 CC manifestations. They can be used particularly for prostatic disorders
 CC such as metastatic prostate cancer, localised prostate cancer, or benign
 CC prostate hyperplasia (BPH).
 XX
 SQ Sequence 745 BP; 232 A; 148 C; 174 G; 180 T; 11 other;

Query Match 0.8%; Score 45; DB 21; Length 745;
 Best Local Similarity 100.0%; Pred. No. 7.1e-11;
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5246 aaattagttggcattggtggcacatgctgtagtcctccagctactc 5290
 Db |||||||||||||||||||||||||||||||||||||||||||||||||
 356 aaattagttggcattggtggcacatgctgtagtcctccagctactc 400

RESULT 8
 AAC25679/C
 ID AAC25679 standard; cDNA; 173 BP.
 XX
 AC AAC25679;
 XX
 DT 06-OCT-2000 (first entry)
 XX
 DE Human secreted protein 5' EST, SEQ ID NO: 29754.
 XX
 KW Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
 KW gene therapy; chromosome mapping; ss.
 XX
 OS Homo sapiens.
 XX
 PN EP1033401-A2.
 XX
 PD 06-SEP-2000.
 XX
 PF 21-FEB-2000; 2000EP-0200610.
 XX
 PR 26-FEB-1999; 99US-0122487.
 XX
 PA (GEST) GENSET.
 XX
 PI Dumas Milne Edwards J, Duclert A, Giordano J;
 DR WPI; 2000-500381/45.
 XX
 XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures -
 PT
 XX
 PS Claim 1; SEQ ID 29754; 71pp + CD-ROM; English.
 XX
 XX The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
 CC identified within the present sequence. The 5' ESTs were prepared from
 CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences
 CC derived from the 5' ends of mRNAs and even in those cases where longer
 CC cDNA sequences have been obtained, the full 5' UTR is rarely included.
 CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
 CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
 CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.
 CC they are used to obtain upstream regulatory sequences and to design
 CC expression and secretion vectors.
 XX
 SQ Sequence 173 BP; 37 A; 46 C; 39 G; 46 T; 5 other;

Query Match 0.7%; Score 41; DB 21; Length 173;
 Best Local Similarity 100.0%; Pred. No. 5.2e-09;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5325 gttgagcgtgacgtgactgactgcacactgcactcca 5365
 Db |||||||||||||||||||||||||||||||||||||||||||||||||
 92 GTTGAGGCTGACGTGACTGCTGCGCCACTGCACTCCA 52

RESULT 9

AAC79767
ID AAC79767 standard; cDNA; 986 BP.

AC AAC79767;

DT 12-FEB-2001 (first entry)

DE Human secreted protein gene 28 SEQ ID NO:38.

XX Human; secreted protein; diagnosis; antiarthritic; immunosuppressive;
XX antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;
KW cerebroprotective; neurotropic; neuroprotective; antibacterial; virucide;
KW fungicide; ophthalmological; vulnary; gene therapy; autoimmune disease;
KW hyperproliferative disorder; cardiovascular disorder; angiogenesis;
KW cerebrovascular disorder; nervous system disorder; infection;
KW wound healing; food additive; preservative; skin aging; ss.

XX Homo sapiens.

OS WO200058494-A1.

PN 05-OCT-2000.

XX 23-MAR-2000; 2000WO-US07578.

XX 26-MAR-1999; 99US-0126507.

PR 07-JAN-2000; 2000US-0174872.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM, Komatsoulis G;

PI WPI; 2000-594644/56.

DR P-PSDB; AAB44722.

XX New nucleic acid molecules encoding 50 human secreted proteins for
PT diagnosing, preventing, treating or ameliorating medical conditions and
PT used as food additives or preservatives -

XX Claim 1; Page 327; 371pp; English.

XX The polynucleotide sequences given in AAC79740 to AAC79789 encode the
CC human secreted proteins given in AAB44695 to AAB44744. AAB44745 to
CC AAB44760 represent human secreted polypeptide sequences and proteins
CC homologous to them, which are given in the exemplification of the present
CC invention. Human secreted proteins have activities based on the tissues
CC and cells the genes are expressed in. Examples of activities include:
CC antiarthritic; immunosuppressive; antirheumatic; antiproliferative;
CC cytostatic; cardiant; vasotropic; cerebroprotective; neurotropic;
CC neuroprotective; antibacterial; virucide; fungicide; ophthalmological;
CC and vulnary. The polynucleotides and polypeptides can be used to
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used
CC in diagnosing a pathological condition or susceptibility to a
CC pathological condition. Disorders which are diagnosed or treated include
CC autoimmune diseases, hyperproliferative disorders, cardiovascular
CC disorders, cerebrovascular disorders, angiogenesis, nervous system
CC disorders, infections caused by bacteria, viruses and fungi and ocular
CC disorders. The polypeptides can also be used to aid wound healing and
CC epithelial cell proliferation, to prevent skin aging due to sunburn, to
CC maintain organs before transplantation, for supporting cell culture of
CC primary tissues, to regenerate tissues and in chemotaxis. The
CC polypeptides can also be used as a food additive or preservative to
CC increase or decrease storage capabilities, fat content, lipid, protein,
CC carbohydrate, vitamins, minerals, cofactors and other nutritional
CC components. AAC79731 to AAC79739 and AAB44694 represent sequences used in
CC the exemplification of the present invention.

XX Sequence 986 BP; 277 A; 225 C; 265 G; 219 T; 0 other;

Query Match 0.7%; Score 37; DB 21; Length 986;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;

Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 5254 tggcattggtggcacatgctgtagtcctccagctactc 5290

|||||

Db 820 tggcattggtggcacatgctgtagtcctccagctactc 856

RESULT 10

AAC05292/c

ID AAC05292 standard; cDNA; 182 BP.

XX AAC05292;

XX 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 9367.

XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW gene therapy; chromosome mapping; ss.

XX Homo sapiens.

XX EPI033401-A2.

XX 06-SEP-2000.

XX 21-FEB-2000; 2000EP-0200610.

XX 26-FEB-1999; 99US-0122487.

XX (GEST) GENSET.

XX Dumas Milne Edwards J, Duclert A, Giordano J;

XX WPI; 2000-500381/45.

XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures -

XX Claim 1; SEQ ID 9367; 71pp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
CC identified within the present sequence. The 5' ESTs were prepared from
CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
CC sequences usually correspond mainly to the 3' untranslated region (UTR)
CC of the mRNA because they are often obtained from oligo-dT primed cDNA
CC libraries. Such ESTs are not well suited for isolating cDNA sequences
CC derived from the 5' ends of mRNAs and even in those cases where longer
CC cDNA sequences have been obtained, the full 5' UTR is rarely included.
CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.
CC They are used to obtain upstream regulatory sequences and to design
CC expression and secretion vectors.

XX Sequence 182 BP; 29 A; 50 C; 41 G; 62 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 182;

Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 5255 gggcattggtggcacatgctgtagtcctccagctactc 5290

|||||

Db 158 GGGCATGGTGGCACATGCTCTAGTCCAGCTACTC 123

RESULT 11

AAA37105

ID AAA37105 standard; cDNA; 1334 BP.

XX

DR P-PSDB; AAY99423.
XX New mammalian DNA sequences encoding transmembrane, receptor or
PT secreted PRO polypeptides, useful for screening of potential peptide or
PT small molecule inhibitors of the relevant receptor/ligand interactions
XX
XX
PS Claim 2; Fig 167; 773pp; English.
XX
CC AAA37022 to AAA37144 encode the new isolated human transmembrane,
CC receptor or secreted PRO polypeptides given in AAY99340 to AAY99462. The
CC transmembrane and receptor PRO proteins can be used for screening of
CC potential peptide or small molecule inhibitors of the relevant
CC receptor/ligand interactions. The polypeptides and nucleotide sequences
CC encoding then have various industrial applications, including uses as
CC pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent
CC PCR primers and hybridisation probes used in the isolation of the PRO
CC polypeptides from the present invention.
XX
SQ Sequence 1334 BP; 299 A; 309 C; 336 G; 390 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 1334;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5254 tgggcattggtggcacatgctgtagtcaccagctact 5289
|||||
DB 1177 tgggcattggtggcacatgctgtagtcaccagctact 1212

RESULT 12
AAF54417
ID AAF54417 standard; DNA; 1334 BP.
XX
AC AAF54417;
XX
DT 02-APR-2001 (first entry)
XX
DE Primer #90 used in the identification of proteins.
XX
KW Secreted; transmembrane; gene therapy; ss.
XX
OS Unidentified.
XX
OS WO200078961-A1.
XX
PN 28-DEC-2000.
XX
PD 18-FEB-2000; 2000WO-US04342.
XX
PR 23-JUN-1999; 99US-0141037.
XX
PR 20-JUL-1999; 99US-0144758.
XX
PR 26-JUL-1999; 99US-0145698.
XX
PR 01-SEP-1999; 99WO-US20111.
XX
PR 29-OCT-1999; 99US-0162506.
XX
PR 30-NOV-1999; 99WO-US28313.
XX
PR 02-DEC-1999; 99WO-US28551.
XX
PR 16-DEC-1999; 99WO-US30095.
XX
PR 03-JAN-2000; 2000WO-US00219.
XX
PR 06-JAN-2000; 2000WO-US00376.
XX
PA (GETH) GENENTECH INC.
XX
XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;
PI Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D;
PI Watanabe CK, Williams PM, Wood WT;
XX
DR WPI; 2001-071395/08.
XX
XX Secreted and transmembrane proteins and nucleic acids designated PRO,
PT useful as hybridization probes, in chromosome and gene mapping and gene
PT therapy -

XX Example 86; Page 459; 787pp; English.
XX
XX The present invention relates to secreted and transmembrane proteins.
CC These proteins and the DNA encoding them may be used as hybridization
CC probes, in chromosome and gene mapping and in the generation of
CC anti-sense RNA and DNA. They may also be used to generate either
CC transgenic animals or knockout animals which are in turn useful for
CC development and screening of therapeutically useful reagents.
CC The nucleic acids may also be used in gene therapy.
XX
SQ Sequence 1334 BP; 299 A; 309 C; 336 G; 390 T; 0 other;

Query Match 0.7%; Score 36; DB 22; Length 1334;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5254 tgggcattggtggcacatgctgtagtcaccagctact 5289
|||||
DB 1177 tgggcattggtggcacatgctgtagtcaccagctact 1212

RESULT 13
AAC59429/c
ID AAC59429 standard; cDNA; 2764 BP.
XX
AC AAC59429;
XX
DT 02-FEB-2001 (first entry)
XX
DE Human secreted protein cDNA #38.
XX
KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
KW vulnary; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW neurological disease; infection; human; secreted protein; ss.
XX
OS Homo sapiens.
XX
PN WO200056765-A1.
XX
PD 28-SEP-2000.
XX
PP 16-MAR-2000; 2000WO-US06823.
XX
PR 19-MAR-1999; 99US-0125364.
XX
PR 08-DEC-1999; 99US-0169623.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM, Komatsoulis G;
PI
XX WPI; 2000-602215/57.
XX
DR P-PSDB; AAB33997.
XX
PT Nucleic acid molecules encoding human secreted proteins, used in
PT preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
PT Parkinson's diseases and cancers -
XX
PS Claim 1; Page 351-352; 410pp; English.
XX
XX The invention relates to the isolation of genes AAC59392-C59439 encoding
CC 48 human secreted proteins AAB33963-B34006. The genes can be used to
CC generate fusion proteins by linking to the gene for the human
CC immunoglobulin G Fc portion (SEQID1) for increasing the stability of
CC the fusion protein as compared to the human protein only. The genes and
CC proteins are useful for preventing, ameliorating or treating medical
CC conditions, e.g. by protein or gene therapy. The genes are isolated
CC from a range of human tissues disclosed in the specification. The
CC nucleic acids, proteins, antibodies and (ant)agonists are useful in
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast

CC and ovarian cancer, and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.
 XX
 SQ Sequence 2764 BP; 688 A; 672 C; 673 G; 731 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 2764;
 Best Local Similarity 100.0%; Pred. No. 1.1e-06;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5254 tggcatggtggcacatgctgtagtcacagctact 5289
 |||||
 Db 1523 TGGGCATGGTGGCACATGCTGTAGTCCAGCTACT 1488

RESULT 14
 AAA38099/c
 ID AAA38099 standard; DNA; 5490 BP.
 XX
 AC AAA38099;
 XX
 DT 24-AUG-2000 (first entry)
 XX
 DE Human genomic DNA fragment containing the atp2 gene.
 KW Na/K-ATPase beta2 subunit; atp2; p53; polymorphism; lose heterozygosity;
 KW detect gene deletion; cancer; tumour; ds.
 XX
 OS Homo sapiens.
 XX
 PN JP2000093185-A.
 XX
 PD 04-APR-2000.
 XX
 PF 25-SEP-1998; 98JP-0288796.
 XX
 PR 25-SEP-1998; 98JP-0288796.
 XX
 PA (KOKU-) KOKURITSU GAN CENT SOCHO.
 PA (BMLB-) BML KK.
 XX
 DR WPI; 2000-342477/30.
 XX

Detection of pathogenic gene deletion to assess the correlation between tumour cellularity and disappearance of heterozygosity, useful in predicting a cancerous genotype -
 Claim 3; Fig 1; 20pp; Japanese.
 This sequence represents a fragment of human genomic DNA, containing the Na/K-ATPase beta2 subunit gene (atp2). The fragment is used in a method for the detection of gene deletion in a gene sample-derived cell by detecting the disappearance of heterozygosity in a gene polymorphism marker. The invention relates to detection of gene deletion in relation to the disappearance of heterozygosity in a gene polymorphism marker in the atp2 gene present downstream of the p53 gene in the sample, and relates more preferably to a gene polymorphism marker in the p53 gene. The method is used for the detection of pathogenic gene deletion especially that related to induction of a cancerous state.
 XX
 SQ Sequence 5490 BP; 1065 A; 1626 C; 1457 G; 1342 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 5490;
 Best Local Similarity 100.0%; Pred. No. 1.1e-06;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5255 gggcatggtggcacatgctgtagtcacagctactc 5290
 |||||
 Db 5364 GGGCATGGTGGCACATGCTGTAGTCCAGCTACTC 5329

RESULT 15
 AAX89439/c
 ID AAX89439 standard; DNA; 7680 BP.
 XX
 AC AAX89439;
 XX
 DT 15-FEB-2000 (first entry)
 XX
 DE 14-3-3 sigma transcription regulatory region.

KW 14-3-3 sigma; HME1; stratifin; p53; diagnosis; cancer; psoriasis; polyp;
 KW psoriasis; wart; inflammatory disease; proliferation; ss;
 KW transcription regulatory region.
 XX
 OS Homo sapiens.

XX
 PN WO931240-A2.
 XX
 PD 24-JUN-1999.
 XX
 PF 18-DEC-1998; 98WO-US26924.
 XX
 PR 18-DEC-1997; 97US-0069416.
 PR 15-DEC-1998; 98US-0210748.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Hermeking H, Vogelstein B, Kinzler KW;
 XX WPI; 2000-022907/02.
 XX
 PT Use of 14-3-3 sigma polypeptides and nucleic acids for the diagnosis or
 PT treatment of cancer -
 XX
 PS Claim 52; Page 68-71; 73pp; English.

XX This is the 14-3-3 sigma transcriptional regulatory region nucleotide
 CC sequence. 14-3-3 sigma is a member of the 14-3-3 protein family and is
 CC also known as HME1 or stratifin. 14-3-3 sigma expression is regulated by
 CC p53 and exogenous expression of 14-3-3 sigma results in G2 block. The
 CC 14-3-3 sigma nucleotide and amino acid sequences are used in the
 CC invention to develop agents for the diagnosis, susceptibility
 CC determination and treatment of cancer. The amino acid sequence can be
 CC used in method for suppressing the growth of tumour cells. The 14-3-3
 CC sigma polypeptides can mediate cell cycle arrest upon damage to cellular
 CC DNA. 14-3-3 sigma probes can be used for diagnosing, testing
 CC susceptibility to or treating cancers and identifying agents for treating
 CC cancers. They can also be used to treat other proliferative diseases,
 CC e.g. psoriasis, polyps, warts, and inflammatory diseases. The 14-3-3
 CC sigma antisense oligonucleotides can be used for promoting the
 CC proliferation and growth of cells.
 XX
 SQ Sequence 7680 BP; 1798 A; 2053 C; 2000 G; 1829 T; 0 other;

Query Match 0.7%; Score 36; DB 21; Length 7680;
 Best Local Similarity 100.0%; Pred. No. 1.1e-06;
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5255 gggcatggtggcacatgctgtagtcacagctactc 5290
 |||||
 Db 6110 GGGCATGGTGGCACATGCTGTAGTCCAGCTACTC 6075

